

WHAT IS CLAIMED IS:

1. A valve assembly of a reciprocal compressor, comprising:

a valve plate disposed between a cylinder body and a cylinder head and having a refrigerant discharge hole formed thereon;;  
a reed valve for opening/closing the refrigerant discharge hole;

a first stopper for resisting a bending force of the reed valve bent by a discharge force of refrigerant while the refrigerant is discharged through the refrigerant discharge hole;

at least one second stopper for resisting against a bending force of the first stopper caused by the reed valve; and

a keeper for limiting degree of bending of the second stopper caused by the first stopper.

2. The valve assembly of a reciprocal compressor of claim 1, wherein the first and the second stopper are disposed to be overlapped at a place adjacent to a position at which the first stopper and the reed valve are contacted to each other when the reed valve is bent.

3. The valve assembly of a reciprocal compressor of claim 1, further comprising a controlling means,

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installed on the keeper, for controlling a maximum bending degree of the second stopper

4. The valve assembly of a reciprocal compressor of claim 3, wherein the controlling means is a spring disposed between the second stopper and the keeper.

5. The valve assembly of a reciprocal compressor of claim 3, wherein the controlling means further comprises a bolt assembled to the keeper and contacted to the second stopper bent by the first stopper, and distance between the second stopper and the bolt is controlled in accordance with a degree of assembly between the bolt and the keeper.

6. The valve assembly of a reciprocal compressor of claim 5, wherein the keeper has a penetrating hole having a screw part formed at an inner circumference thereof, the screw part for being engaged with another screw part formed on, and the bolt is assembled to penetrate the penetrating hole.

7. A valve assembly of a reciprocal compressor, comprising:

- a valve plate disposed between a cylinder body and a cylinder head and having a refrigerant discharge hole formed thereon;
- a reed valve for opening/sealing the refrigerant discharge hole;

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a stopper for resisting against a bending force of the reed valve while the refrigerant is discharged through the refrigerant discharge hole;

a keeper for limiting the degree of bending of the stopper caused by the reed valve; and

a bolt fastened to the keeper and connected with the stopper bent by the reed valve, and distance between the stopper and the bolt is controlled in accordance with the fastening degree.

8. The valve assembly of a reciprocal compressor of claim 7, wherein the keeper has a penetrating hole having a screw part formed at an inner circumference of the penetrating hole for being engaged with a screw part of the bolt, and the bolt is connected to penetrate the penetrating hole.

9. The valve assembly of a reciprocal compressor of claim 8, further comprising a spring for resisting against a bending force of the stopper, and the spring is inserted between the stopper and the bolt.